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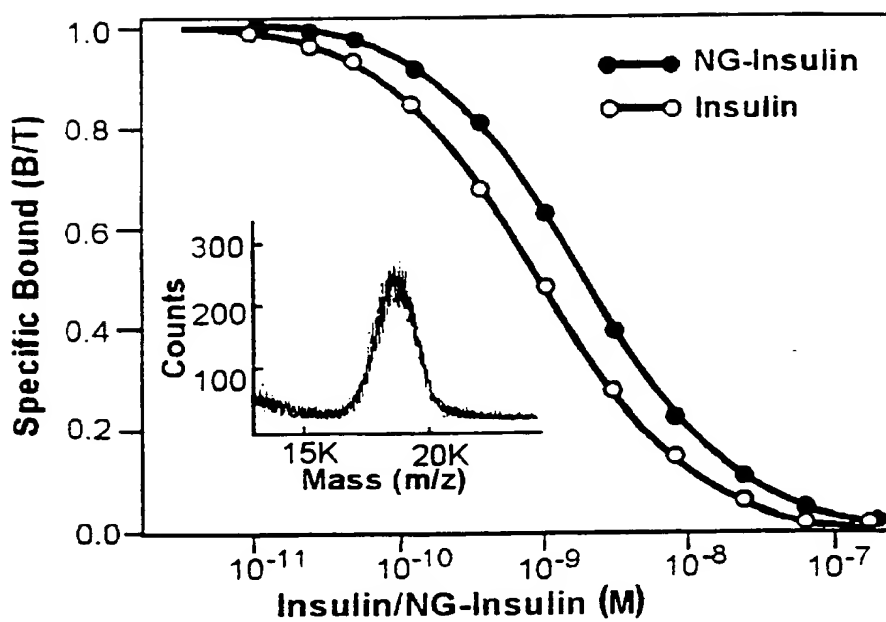
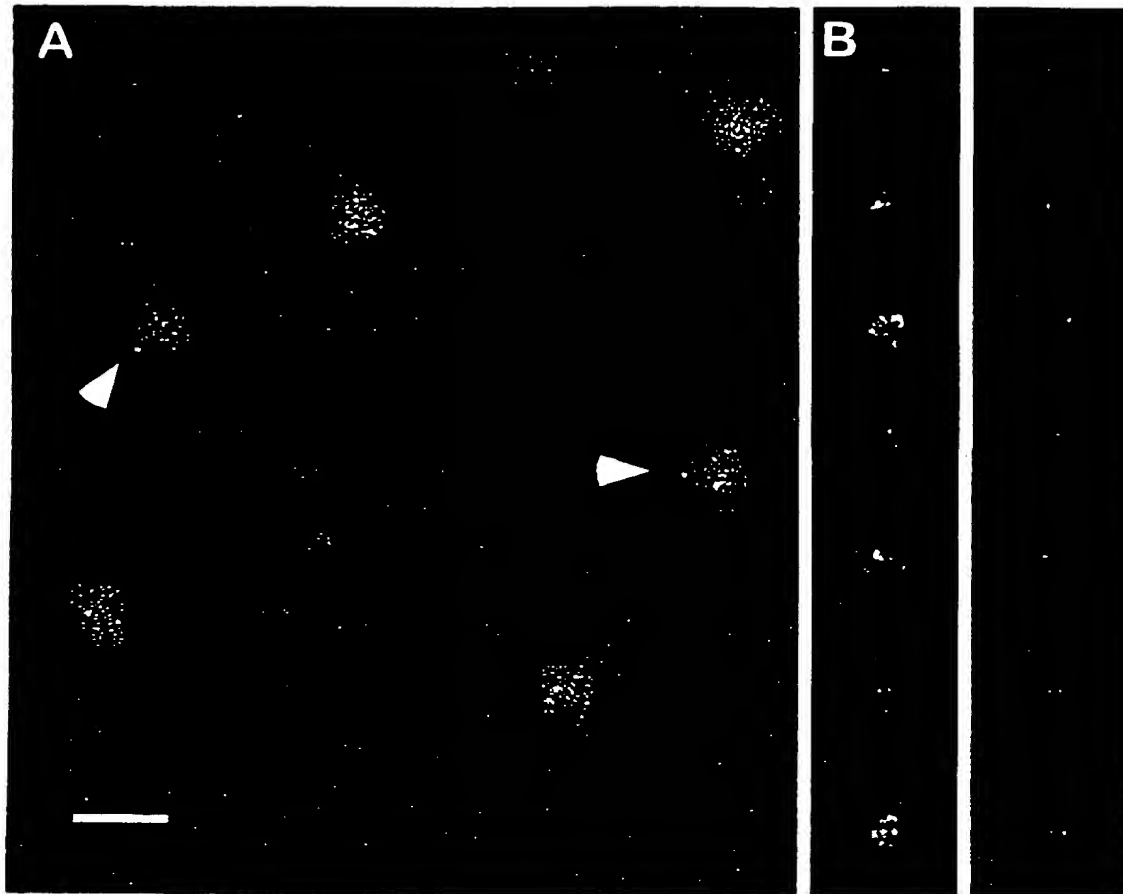
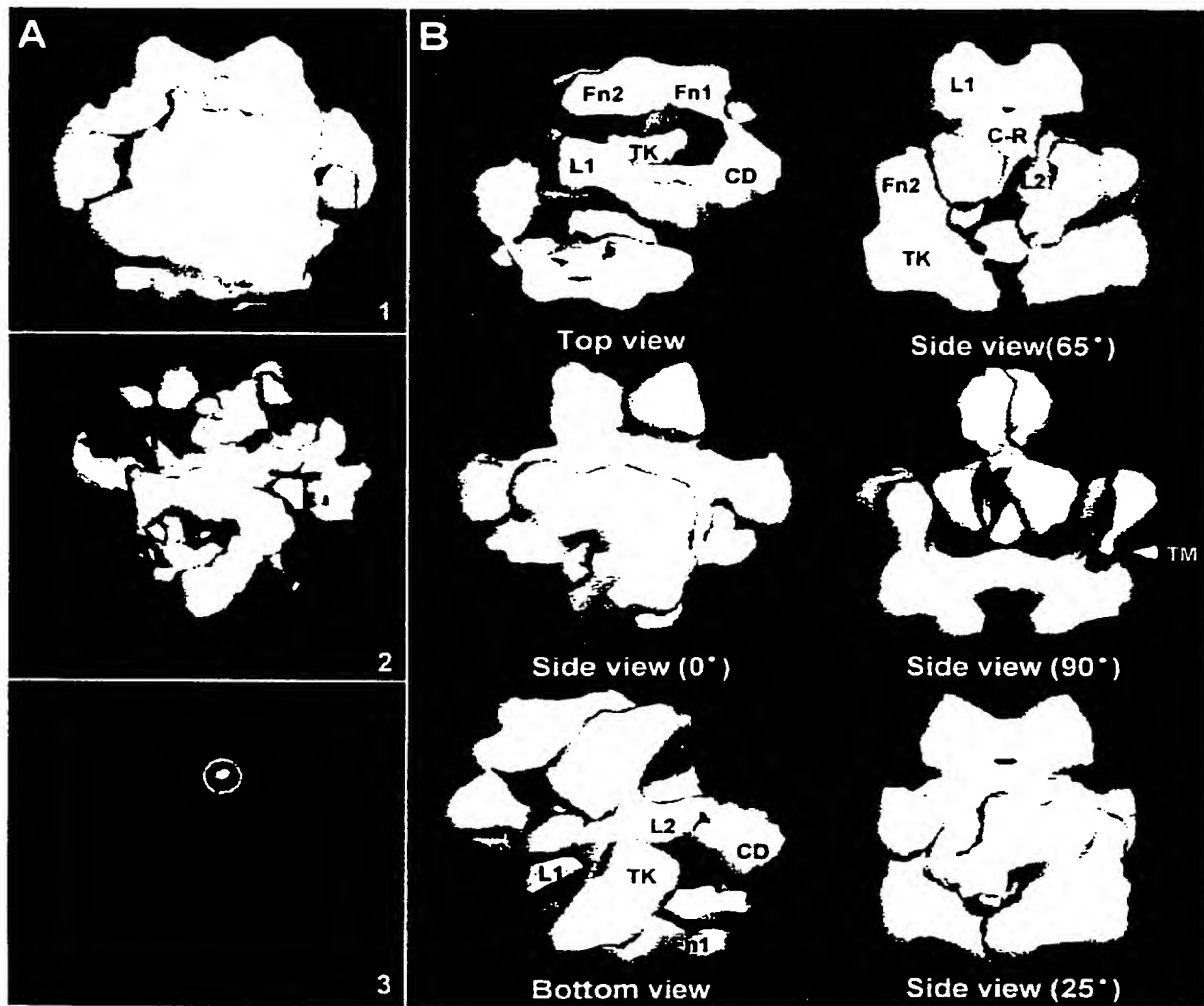


Fig. 1.



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Fig. 2.



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Fig. 3.

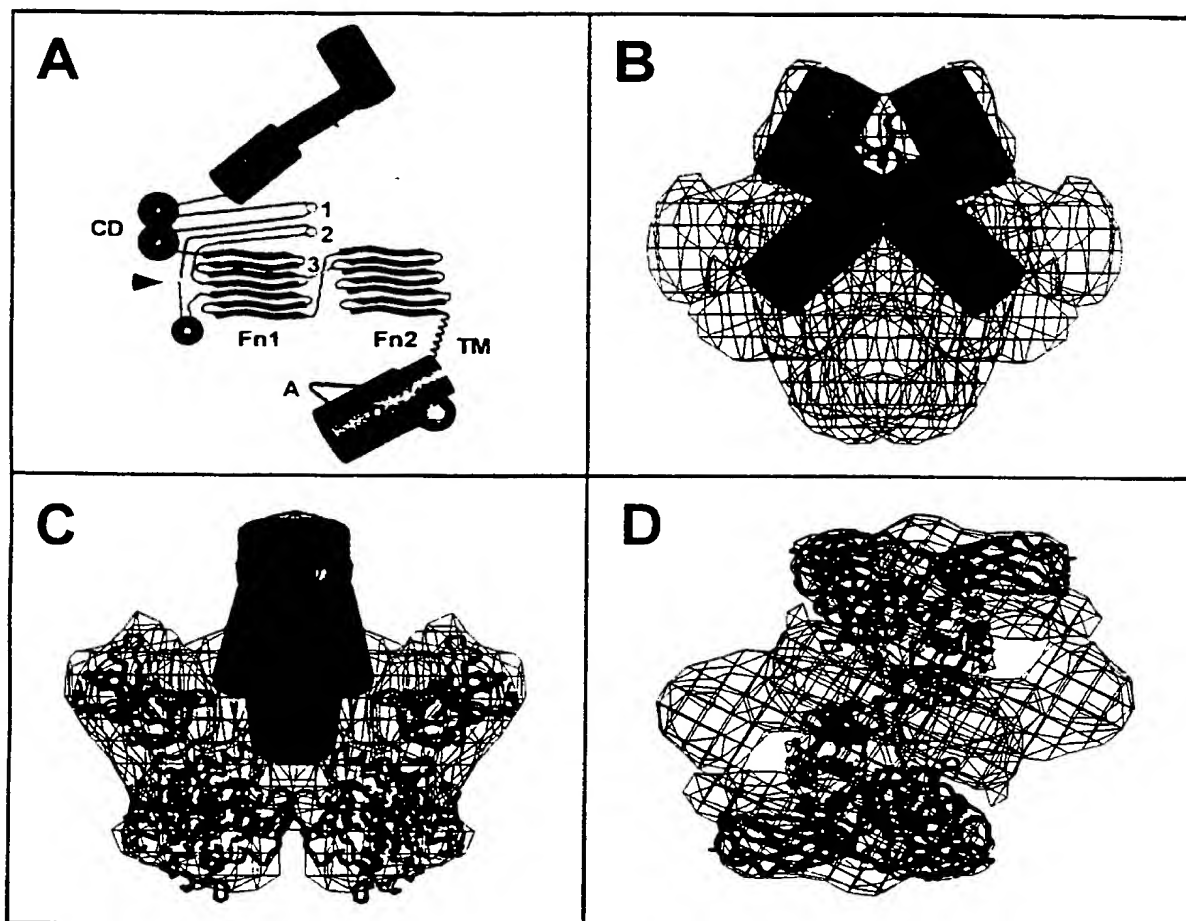


Fig. 4.

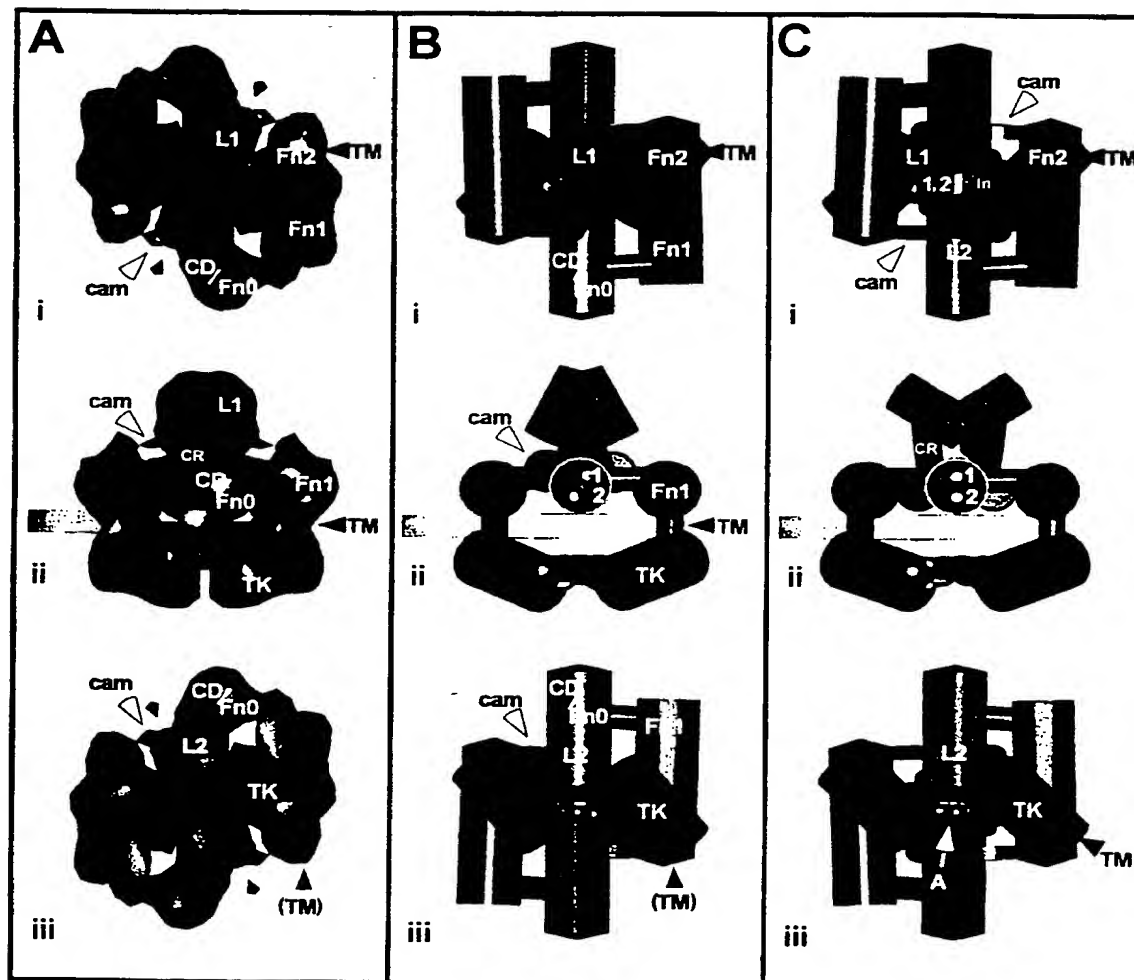


Fig. 5.

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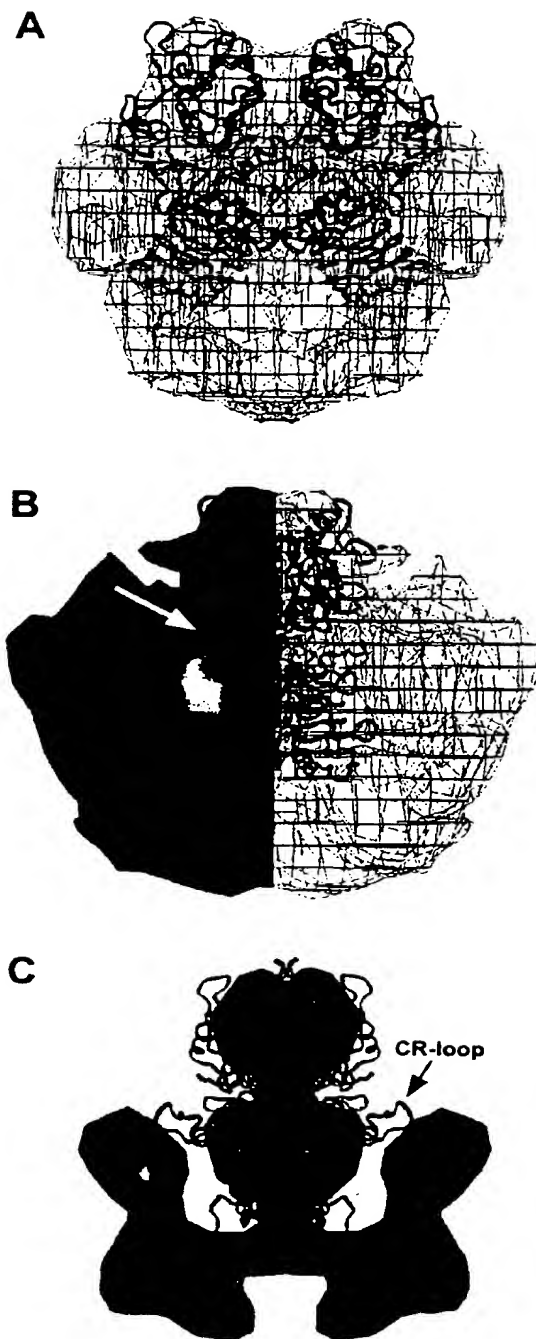


Fig. 7.



Fig. 8.

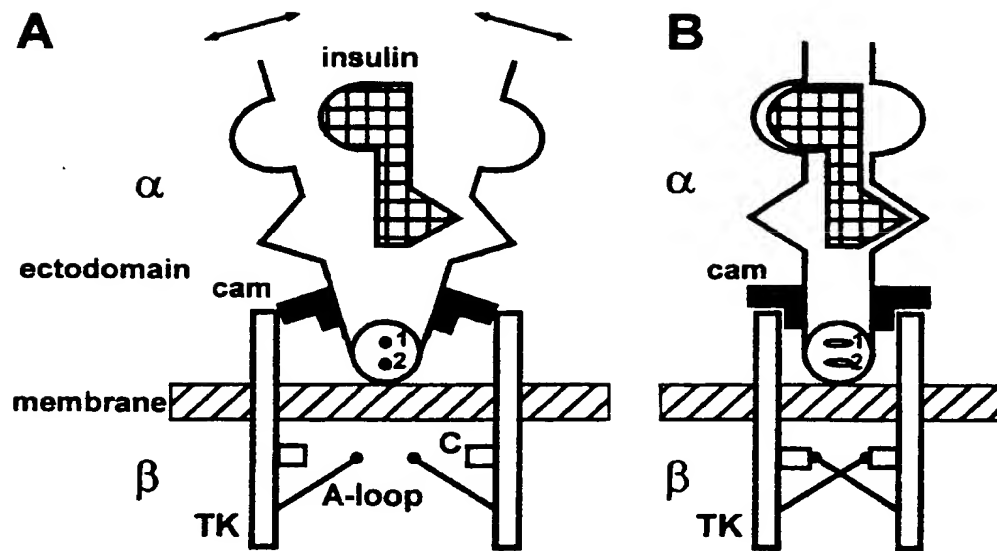


Fig. 9.

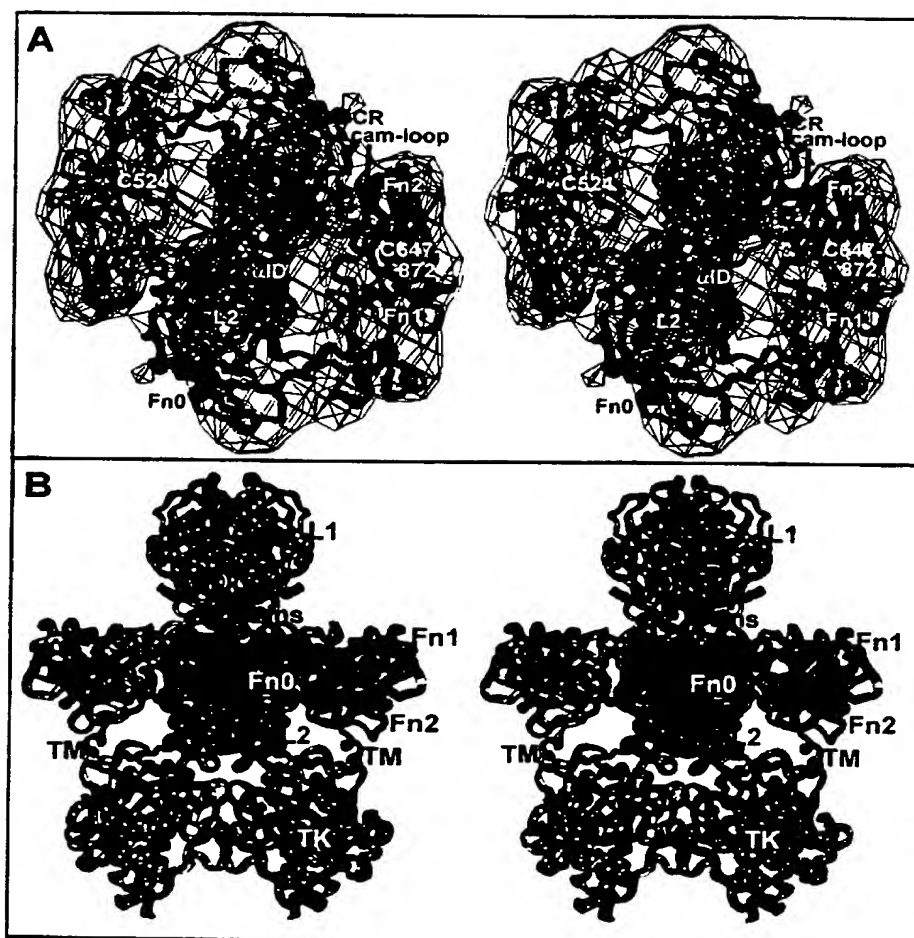


Fig.10.

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Human Insulin Receptor

Leader Sequence

MGTGGRRGAA AAPLLVAVAA LLGAAG

Alpha subunit

ELYPGEVCPG	MDIRNNLTR	HELENCVIE	GHLQILLMF	K TRPEDFRDLS	50
FPKLIMITDY	LLLFVYGLE	SLKDLFPNLT	VIRGSRLFFN	YALVIFEMVH	100
LKELGLYNLM	NITRGSVRIE	KNNELCYLAT	IDWSRILDSV	EDNHIVLNKD	150
DNEECGDICP	GTAKGKTNC	P ATVINGQFVE	RCWTHSHCOK	VCPTICKSHG	200
CTAEGLCCHS	ECLGNCSQPD	DPTKCVACRN	FYLDGRCVET	CPPPYHFDQ	250
WRCVNFSPCQ	DLHHKCKNSR	RQGCHQYVIH	NNKCIPECPS	GTTMNSNNLL	300
CTPCLGPCPK	VCHLEGEKT	IDSVTS AQEL	RGCTVINGSL	IINIRGGNNL	350
AAELEANLGL	IEEISGYLKI	RRSYALVSL	S FFRKLRLIRG	ETLEIGNYSF	400
YALDNQNLRO	LWDWSKHNL	T TQGKLFFHY	NPKLCLSEIH	KMEEVSGTKG	450
RQERN DIALK	TNGDKASCEN	ELLKFSYIRT	SFDKILLRWE	PYWPPDFRDL	500
LGEMLFYKEA	PYQNVTEFDG	QDAGCSNSWT	VVDIDPPLRS	NDPKSQNHPG	550
WLMRGLKPWT	QYAI FVKTLV	TFS DERRTYG	AKSDIIYVQT	DATNPSVPLD	600
PISVSNSSSQ	IILKWKPPSD	PNGNITHYLV	FWEROAEDSE	LFELD YCLKG	650
LKLPSRTWSP	PFSEDSQKH	NQSEYEDSAG	ECCSCPKTDS	QILKELEESS	700
FRKTFEDYLH	NVVFVPRPS				719

Cutting site

R KRR 723

Beta subunit

	SLGDVGN	VTVA VPTVAA	FPNTSSTSV	P	750
TSPEEHRPFE	KVVNKESLVI	SGLRHFTGYR	IELQACNODT	PEERC SVAAY	800
VSARTMPEAK	ADDIVGFVTH	EIFENNVVHL	MWQEPKEPNG	LIVLYEVSYR	350
RYGDEELHLC	VSRKH FALER	GCRLRGLSPG	NYSVRIRATS	LAGNGSWTEP	900
TYFYVTDYLD	VPSNIAKIII	GPLIFVFLFS	VVIGSIYLF	L RKRQPDGPLG	950
PLYASSNPEY	LSASDVFP	CS VYVPDEWEVS	REKITLLREL	GQGSFGMVYE	1000
GNARDIIKGE	AETRVAVKTV	NESASLRERI	EFLNEASVMK	GFTCHHVRL	1050
LGVVSKGOPT	LVMELMAG	DLKSYLRSLR	PEAENNFCRP	PPTLQEMIOM	1100
AAEIADGMAY	LNAKKFVHRD	LAARNCMVAH	DFTVKIGDFG	MTRDIYETDY	1150
YRGGGKGLLP	VRWMAPESLK	DGVFTTSSDM	WSFGVVLWEI	TSLAEOPYQG	1200
LSNEQVLKFV	MDGGYLDQPD	NCPERVTDLM	RMCWQFNPKM	RPTFLEIVNL	1250
LKDDLPSFP	EVSFFHSEEN	KAPESEEELE	M EFEDMENVPL	DRSSHCOREE	1300
AGGRDGGSSL	GFKRSYEEHT	PYTHMNGGKK	NGRIITLPRS	NPS	1343

Fig. 12.

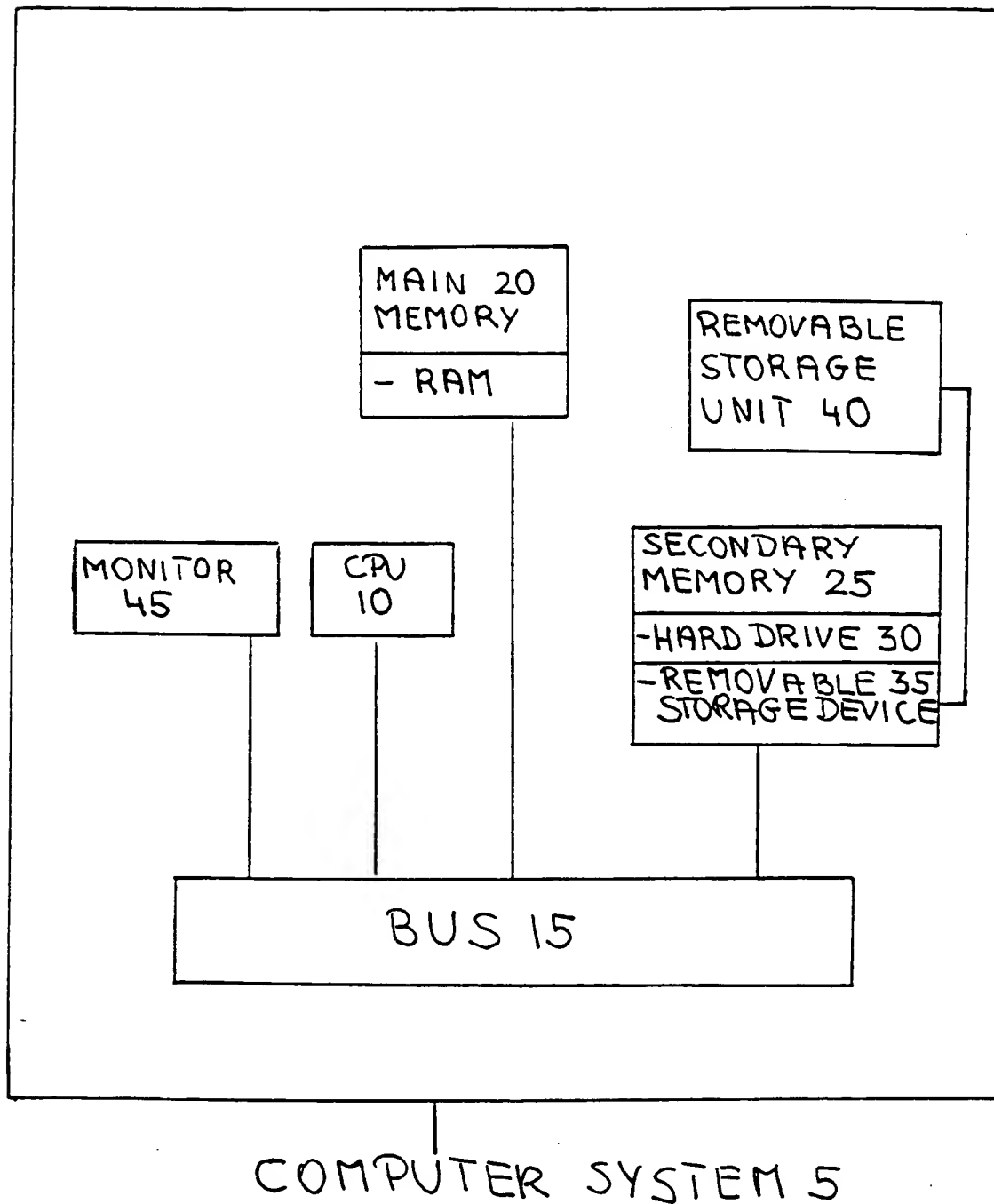


Fig. 13.